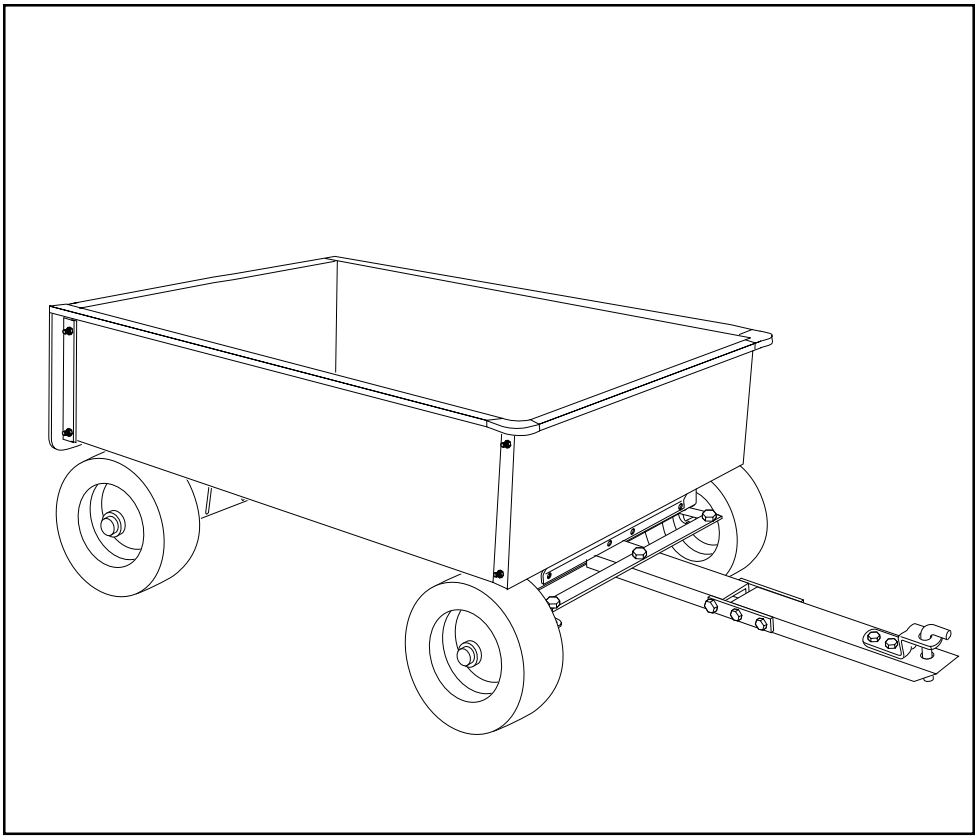
Agri-Fab®

OWNERS MANUAL

Model No. 45-0270



4-WHEEL CART

CAUTION:
Read Rules for Safe Operation and Instructions Carefully

- Assembly
- Operation
- Maintenance
- Repair Parts

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PRINTED IN USA

FORM NO. 48458 (REV. 7/03)

SAFETY RULES

Remember, any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times when using power equipment.

LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS -- ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.

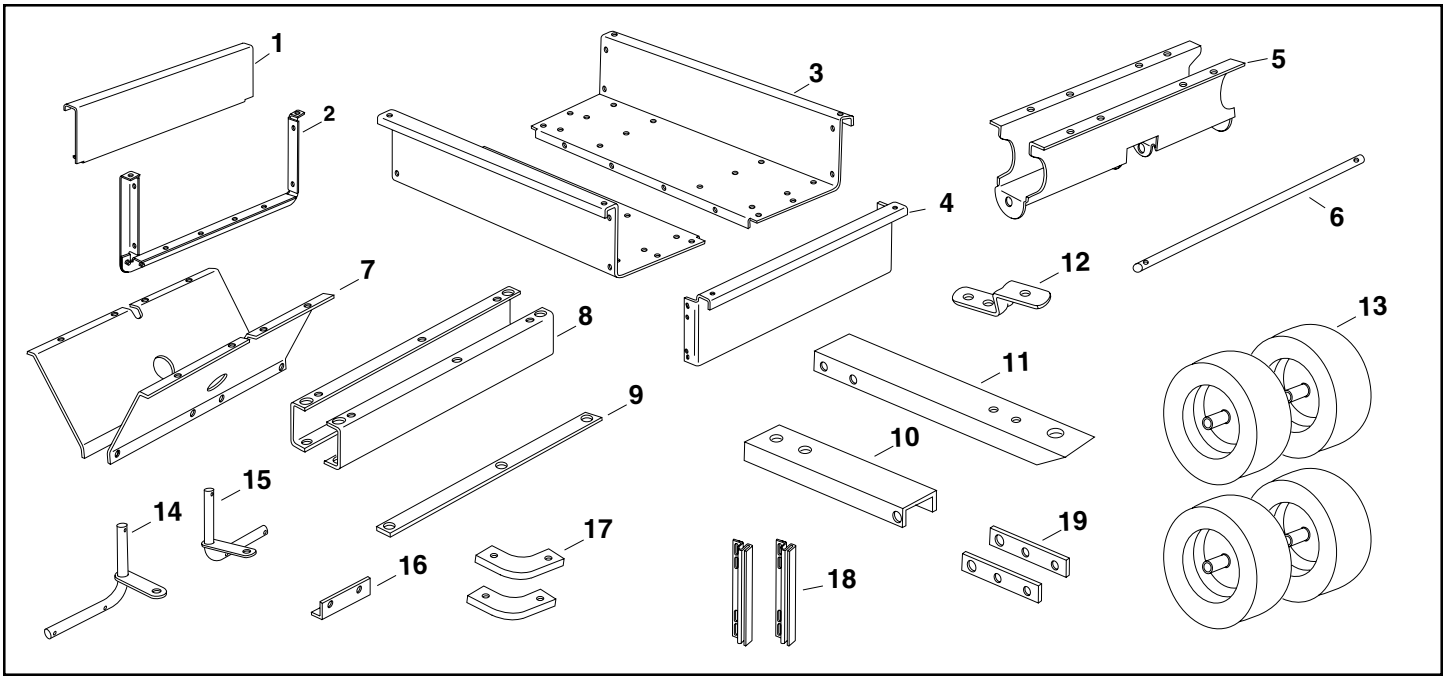
CAUTION: VEHICLE BRAKING AND STABILITY MAY BE AFFECTED WITH THE ADDITION OF AN ACCESSORY OR AN ATTACHMENT. BE AWARE OF CHANGING CONDITIONS ON SLOPES.

Exercise caution at all times when using power equipment.

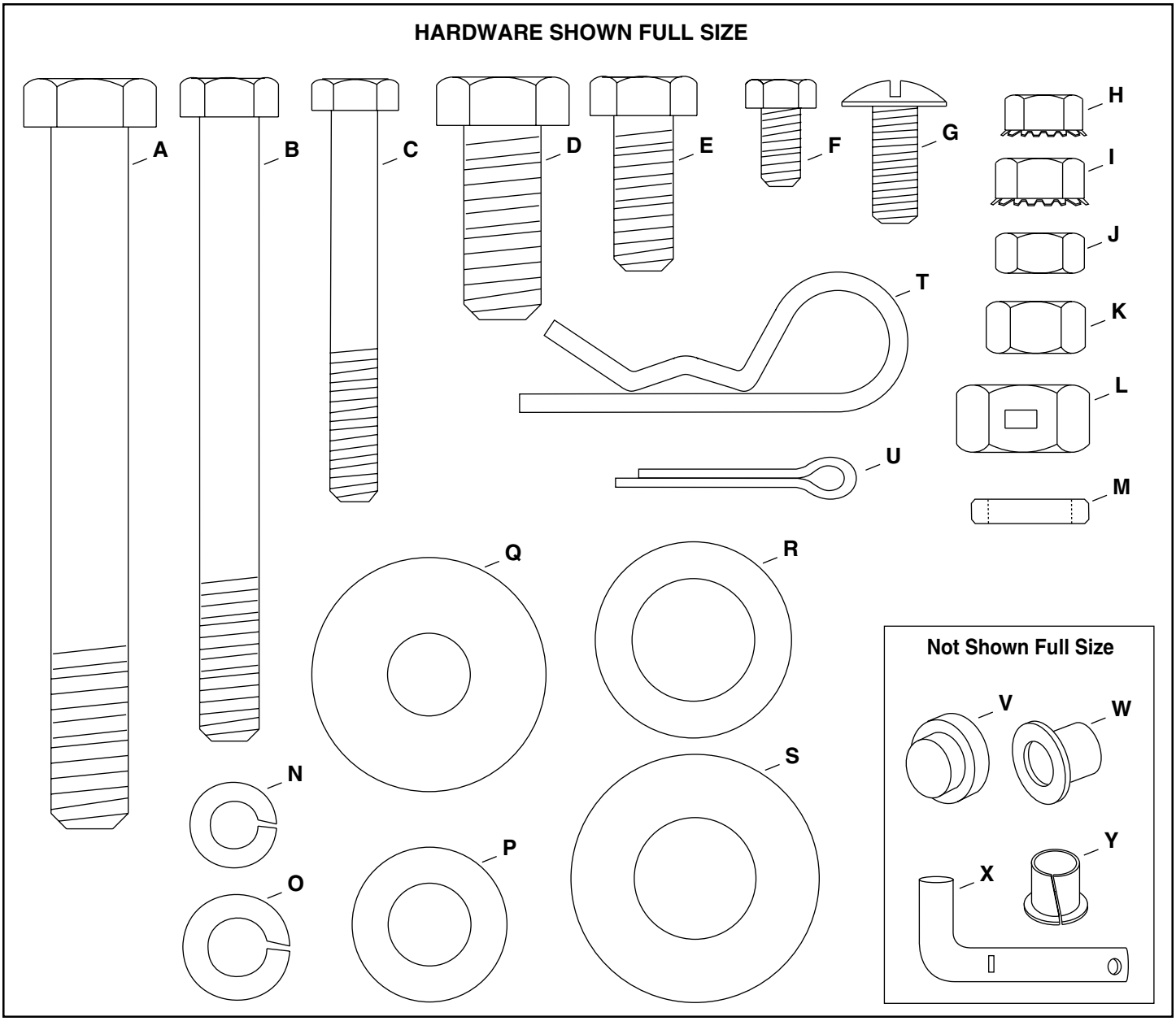
- Read this owners manual before attempting to assemble or operate the cart.
- Read the vehicle owners manual and know how to operate your tractor, before using the cart attachment.
- Do not at any time carry passengers in this cart. It has not been designed to carry passengers.
- Never allow children to operate the tractor or the cart attachment.
- Do not allow adults to operate the tractor or cart attachment without proper instructions.
- Always begin with the transmission in first (low) and gradually increase speed as conditions permit.
- Tow the cart at reduced speed over rough terrain and hillsides or near creeks and ditches to prevent tipping over and loss of control. Do not drive too close to a creek or ditch.
- Vehicle braking and stability may be affected with the attachment of this cart. Do not fill cart to maximum weight capacity without checking the capability of the towing vehicle to safely pull and stop with the cart attached.
- Before operating vehicle on any grade (hill) refer to the safety rules in the vehicle owner's manual concerning safe operation on slopes. Refer also to the slope guide on page 15 of this manual. **Stay off steep slopes!**
- Do not unhook your cart from the tractor while on a slope. The cart could unexpectedly roll down the slope.
- Do not tow this cart on highways or on public thoroughfares.
- Maximum towing speed is 10 m.p.h.
- Follow maintenance and lubrication instructions as outlined in this manual.

CARTON CONTENTS

1. Tailgate
2. Tailgate Reinforcement Bracket
3. Cart Bed (2)
4. Front Panel
5. Wheel Support
6. Axle, Rear
7. Front Axle Support
8. Front Axle Channel
9. Tie Rod
10. Tongue, Rear Section
11. Tongue, Front Section
12. Hitch Bracket
13. Wheels (4)
14. R.H. Axle Spindle
15. L.H. Axle Spindle
16. Tongue Reinforcement Angle
17. Corner Caps (2)
18. Tailgate Guides (2)
19. Pivot Bars (2)



CARTON CONTENTS



HARDWARE PACK

REF.	QTY.	DESCRIPTION	REF.	QTY.	DESCRIPTION
A	2	Hex Bolt, 1/2-13 x 4-1/2" Lg.	N	4	Lock Washer, 5/16"
B	2	Hex Bolt, 3/8-16 x 4" Lg.	O	8	Lock Washer, 3/8
C	4	Hex Bolt, 5/16-18 x 2-1/2" Lg.	P	6	Flat Washer, 1/2" (small)
D	3	Hex Bolt, 1/2-13 x 1-1/4" Lg.	Q	1	Flat Washer, 1/2" (large)
E	6	Hex Bolt, 3/8-16 x 1" Lg.	R	4	Flat Washer, 3/4" (small)
F	22	Hex Bolt, 1/4-20 x 1/2" Lg.	S	8	Flat Washer, 3/4" (large)
G	20	Truss Head Bolt, 5/16-18 x 3/4" Lg.	T	1	Haircotter Pin, 1/8"
H	22	Hex Nut, 1/4" (SEMS)	U	8	Cotter Pin, 1/8" x 1" Lg.
I	20	Hex Nut, 5/16" (SEMS)	V	4	Hub Cap
J	4	Hex Nut, 5/16"	W	2	Plastic Flange Bearing
K	8	Hex Nut, 3/8"	X	1	Hitch Pin
L	5	Hex Lock Nut, 1/2"	Y	4	Plastic Split Bearing
M	1	Pivot Bushing			

ASSEMBLY INSTRUCTIONS

TOOLS REQUIRED FOR ASSEMBLY

(1) Screwdriver
(1) Pliers
(2) 7/16" Wrenches
(2) 1/2" Wrenches
(2) 9/16" Wrenches
(2) 3/4" Wrenches

RECOMMENDED ITEMS

(1) Grease Gun
(4) Small bricks or blocks of wood (2" x 4") for chocking the wheels.

IMPORTANT: Due to the weight of the cart, we recommend that you have someone assist you in lowering the cart onto its wheels after it has been assembled.

1. Remove the hardware pack and all loose parts from the carton. Be sure the carton is empty before discarding.

2. Lay out all the parts and hardware as shown on pages 2 and 3.

3. Position cart body halves upright on a smooth level surface such as a garage floor or a paved driveway. See figure 1.

4. Assemble halves together using four 1/4" x 1/2" hex bolts and 1/4" (SEMS) hex nuts as shown in figure 1. **Do not tighten at this time.**

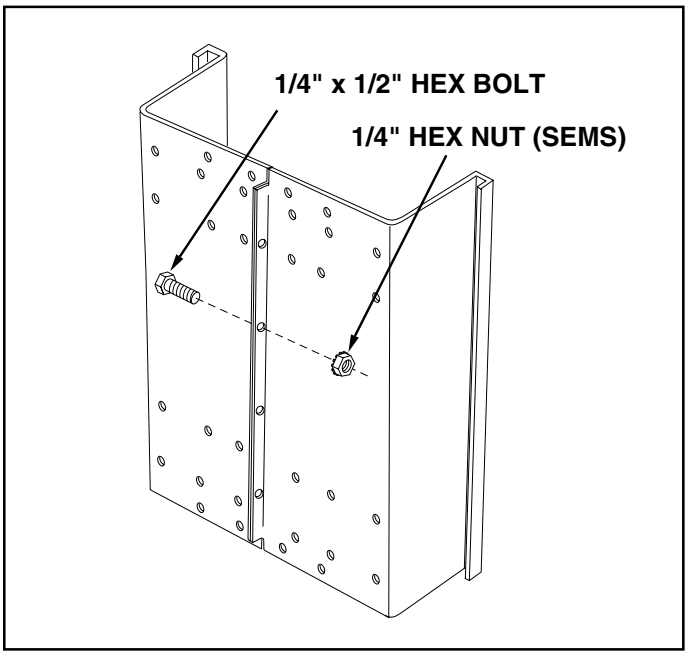


FIGURE 1

CAUTION

DO NOT LEAVE THE CART UNATTENDED IN UPRIGHT POSITION DURING ASSEMBLY. A FALLING CART CAN CAUSE PERSONAL INJURY! PAY CLOSE ATTENTION TO THE STABILITY OF THE CART WHILE IT REMAINS IN AN UPRIGHT POSITION. FOR BEST STABILITY, ASSEMBLE ON A SMOOTH, LEVEL SURFACE.

5. Position the tailgate reinforcement bracket on outside of cart as shown in figure 2. Assemble to the bottom of the cart body using four 5/16" x 3/4" truss head bolts and 5/16" (SEMS) hex nuts. **Do not tighten.** See figure 2.

6. Position the tailgate guides with the holes to the rear as shown in figure 2. Assemble the guides to the inside of the cart using four 1/4" x 1/2" hex bolts and 1/4" (SEMS) hex nuts. **Do not tighten.**

7. Assemble two 1/4" x 1/2" hex bolts and 1/4" (SEMS) hex nuts to the top rear corners of the cart. **Do not tighten.** See figure 2.

8. **Tighten** the four truss head bolts assembled in step 5. **Tighten** the four hex bolts assembled in step 6 and the two hex bolts assembled in step 7. **Tighten** the four hex bolts assembled in step 4, keeping the bottom of the cart body halves even.

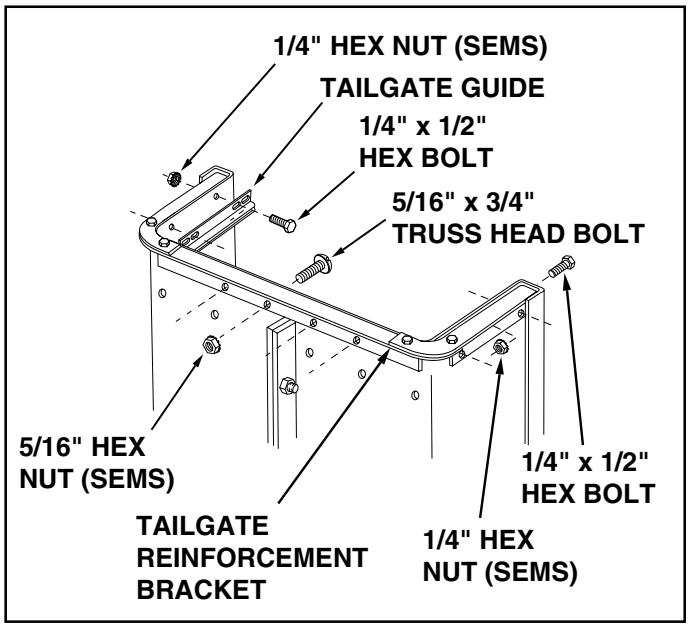


FIGURE 2

9. Lower the cart to rest upside down on its top flanges. See figure 3.

10. Assemble the wheel support at the rear of the cart using eight 5/16" x 3/4" truss head bolts and 5/16" (SEMS) hex nuts as shown in figure 3. Bolt heads go on inside of cart. **Tighten.**

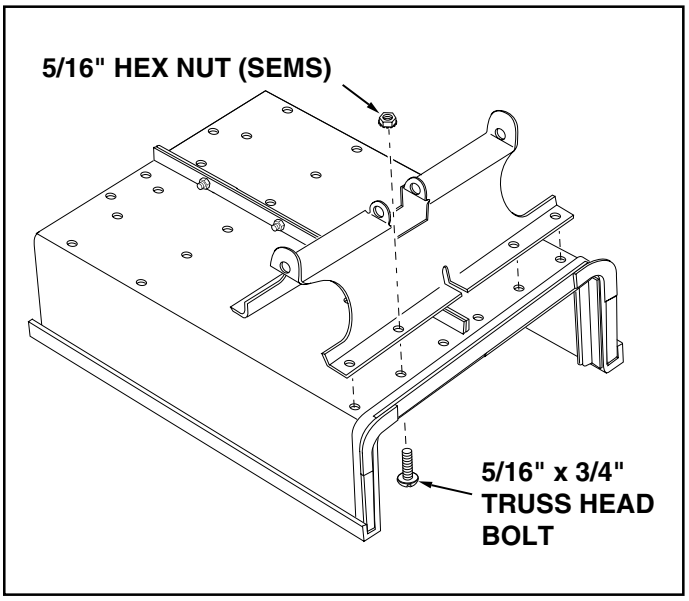


FIGURE 3

11. Assemble the two plastic flange bearings to the wheel support as shown in figure 4.
12. Assemble the axle through the wheel support and the bearings as shown in figure 4.
13. Apply grease to the ends of the axle now or use a grease gun after the wheels are assembled.
14. Assemble a large 3/4" flat washer, a wheel (valve stem out), another large 3/4" flat washer and a cotter pin to each end of the axle as shown in figure 4.
15. Assemble a hub cap over the 3/4" flat washer on each end of the axle as shown in figure 4.

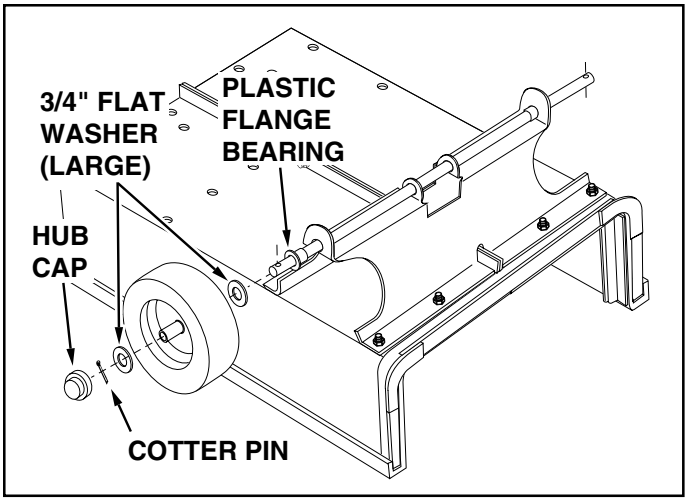


FIGURE 4

16. Stand the cart on end, front end facing up.

17. Assemble the two front axle supports to the cart using eight 5/16" x 3/4" truss head bolts and 5/16" (SEMS) hex nuts as shown in figure 5. **Do not tighten yet.**

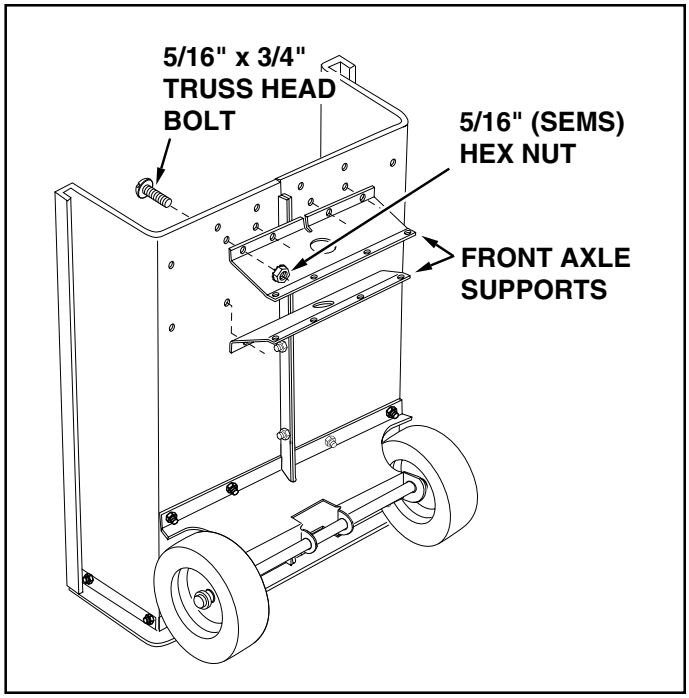


FIGURE 5

18. Place the two front axle channels together as shown in figure 6, making sure the holes in the top, bottom and sides are aligned. Use two 3/8" x 4" hex bolts, 3/8" lock washers and 3/8" hex nuts to fasten the ends of the channels together. Place a 1/2" x 4-1/2" hex bolt and a 1/2" hex lock nut in the middle hole in the channels. **Do not tighten** the bolts at this time.

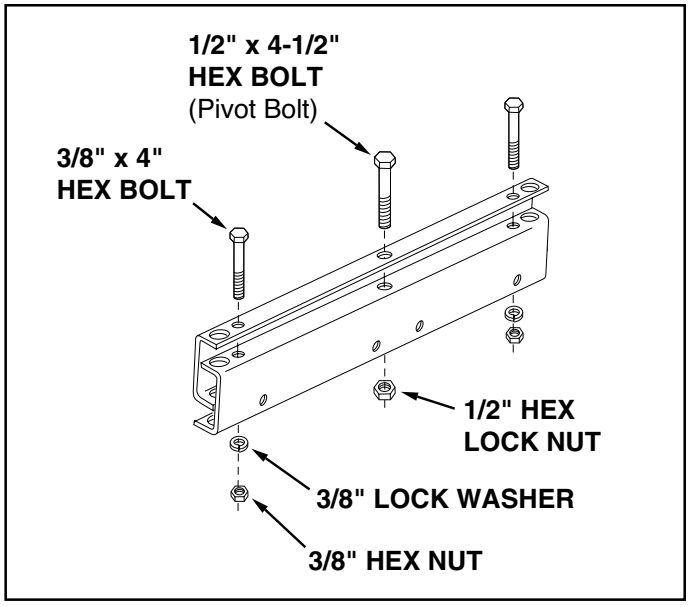


FIGURE 6

19. Assemble the R.H. axle spindle to the front axle channels using two split plastic bearings, two small 3/4" flat washers and a cotter pin as shown in figure 7. Repeat for L.H. axle spindle.

20. **Tighten** the two 3/8" x 4" hex bolts assembled in step 17. **Do not tighten** the 1/2" x 4-1/2" center hex bolt.

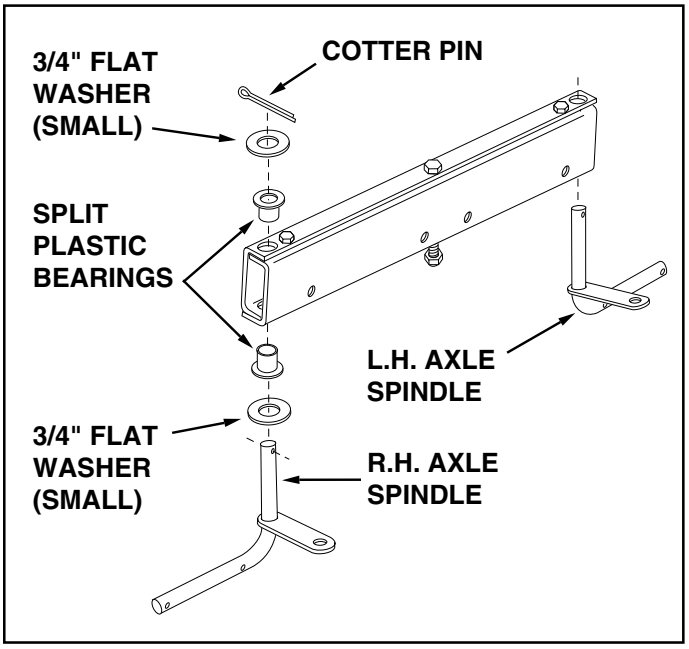


FIGURE 7

21. Place the front axle channels between the front axle supports. Assemble two 5/16" x 2-1/2" hex bolts through the holes in the ends of the supports and secure with 5/16" lock washers and 5/16" hex nuts. **Do not tighten.** See figure 8.

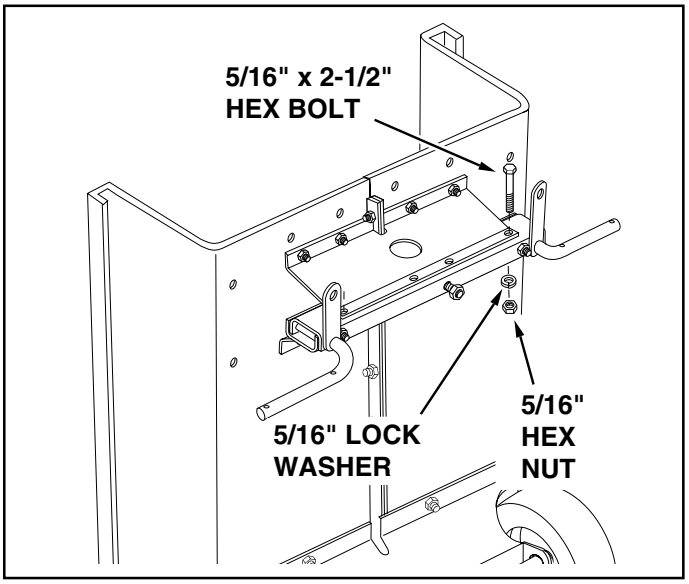


FIGURE 8

22. Assemble the tongue reinforcement angle to the back side of the front axle supports as shown in figure 9. Use two 5/16" x 2-1/2" hex bolts, 5/16" lock washers and 5/16" hex nuts. **Do not tighten.**

23. Make sure the center bolt (pivot bolt) is inserted as far as possible through the axle channels and then **tighten** the four bolts assembled in steps 21 and 22. Next, **tighten** the eight bolts assembled in step 16, which fasten the front axle supports to the cart bed.

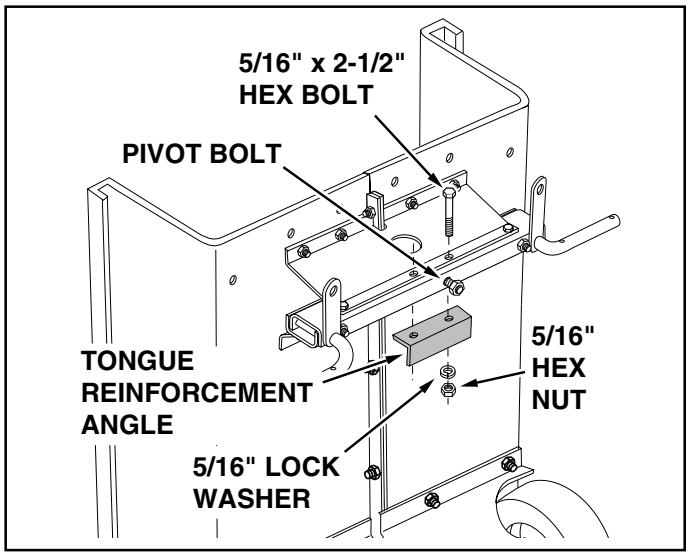


FIGURE 9

24. Assemble the front panel over the end of the cart using eight 1/4" x 1/2" hex bolts and 1/4" (SEMS) hex nuts. **Tighten** the bolts in the bottom of the panel and then **tighten** the bolts in the sides. See figure 10.

25. Assemble two corner caps to the front of the cart using four 1/4" x 1/2" hex bolts and 1/4" (SEMS) hex nuts. **Tighten.** See figure 10.

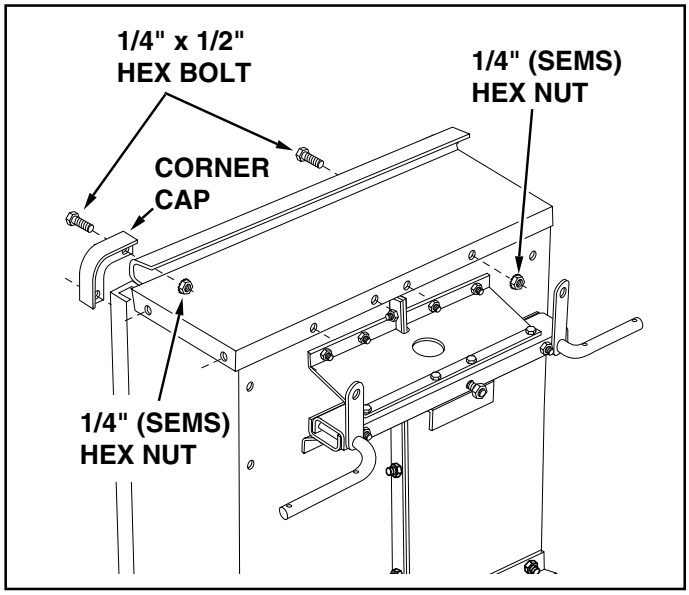


FIGURE 10

26. Assemble the tie rod to the axle spindles using two 1/2" x 1-1/4" hex bolts, four small 1/2" flat washers and two 1/2" hex lock nuts. **Tighten**, leaving loose enough that the spindles still pivot. See figure 11.

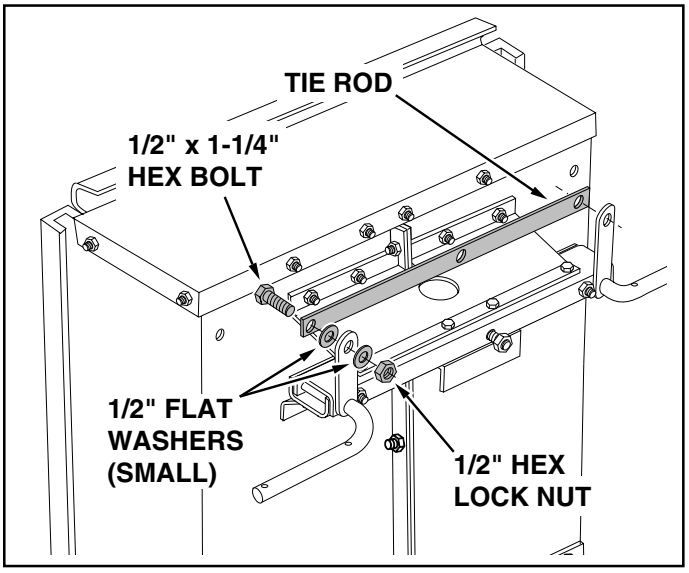


FIGURE 11

27. Remove the 1/2" hex lock nut from the center pivot bolt. Assemble the rear tongue section, the pivot bushing, the large 1/2" flat washer and the 1/2" hex lock nut onto the pivot bolt as shown in figure 12. (The pivot bushing fits into the hole in the tongue.) **Tighten.**

28. Fasten the tongue to the tie rod as shown in figure 12, using a 1/2" x 1-1/4" hex bolt, two small 1/2" flat washers and a 1/2" hex lock nut. **Tighten**, leaving loose enough that the tongue can pivot.

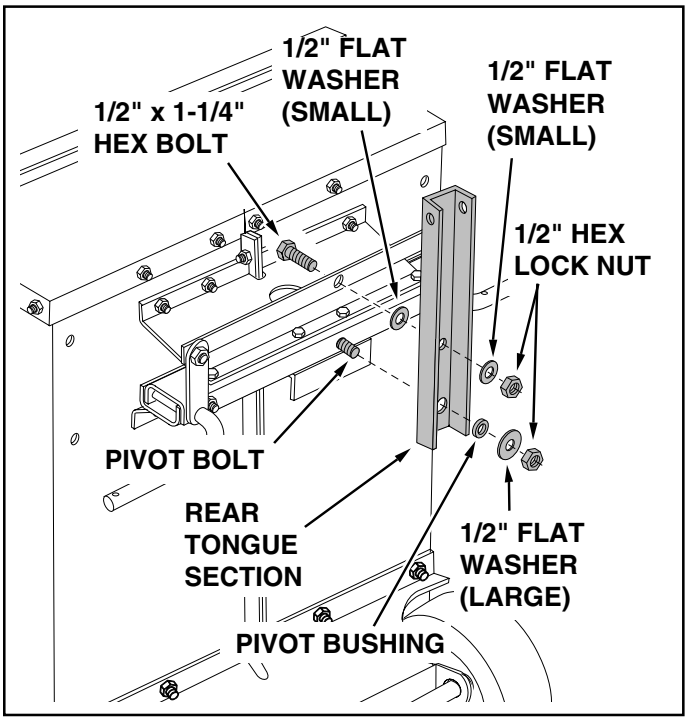


FIGURE 12

29. Apply grease to the axle spindles now or use a grease gun after wheels are assembled.

30. Assemble a cotter pin to the inside hole in an axle spindle. Place a 3/4" flat washer, a wheel (valve stem facing out) and another 3/4" flat washer onto the axle spindle. Assemble a cotter pin to the end hole in the axle. Repeat on other side. See figure 13.

Note: Prevent the axle spindle from pivoting downward until the wheel is secured to it by the outer cotter pin.

31. Assemble a hub cap over the 3/4" flat washer on each wheel. See figure 13.

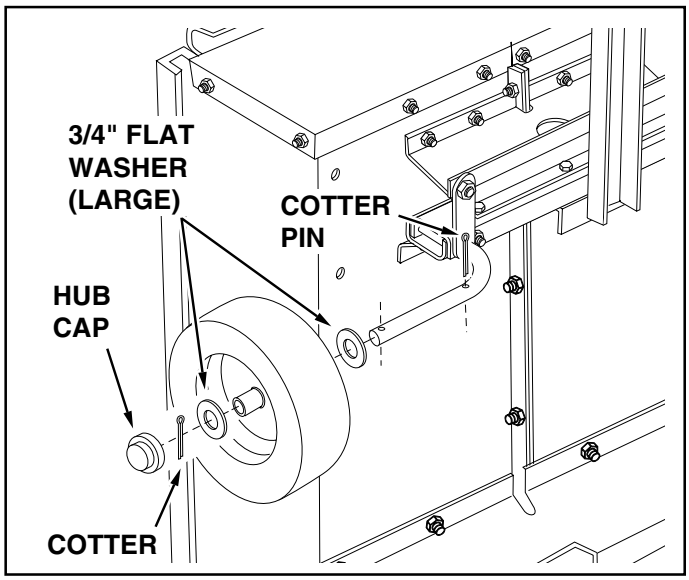


FIGURE 13

32. **To lower the cart onto its wheels you should:**
    a. Chock the rear wheels as shown in figure 14.
    b. Get the assistance of another person to help you lower the cart onto it's wheels.

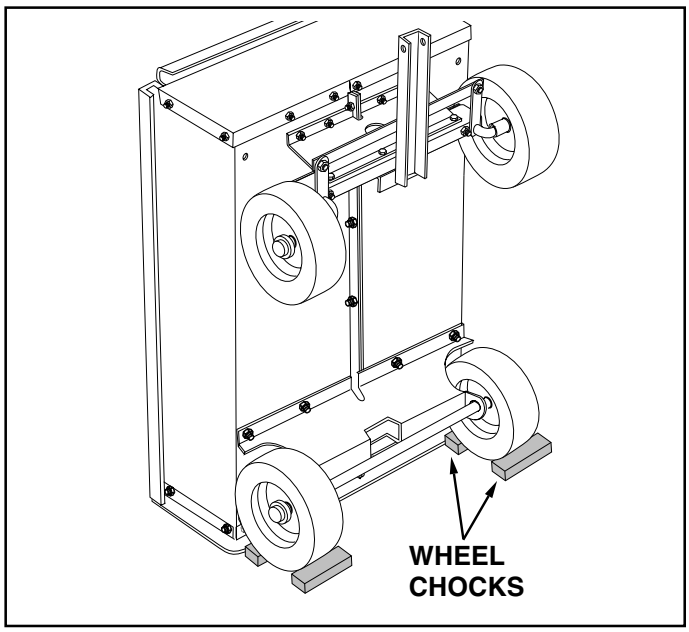


FIGURE 14

33. Assemble the two pivot bars to the front tongue section using four 3/8" x 1" hex bolts, 3/8" lock washers and 3/8" hex nuts. **Do not tighten yet.** See figure 15.

34. Assemble the pivot bars to the rear tongue section using a 1/2" x 4-1/2" hex bolt and 1/2" hex lock nut. **Tighten** the lock nut, leaving it just loose enough to allow the front tongue to pivot. **Now tighten** the four hex bolts, lock washers and hex nuts assembled to the front tongue in step 33. See figure 15.

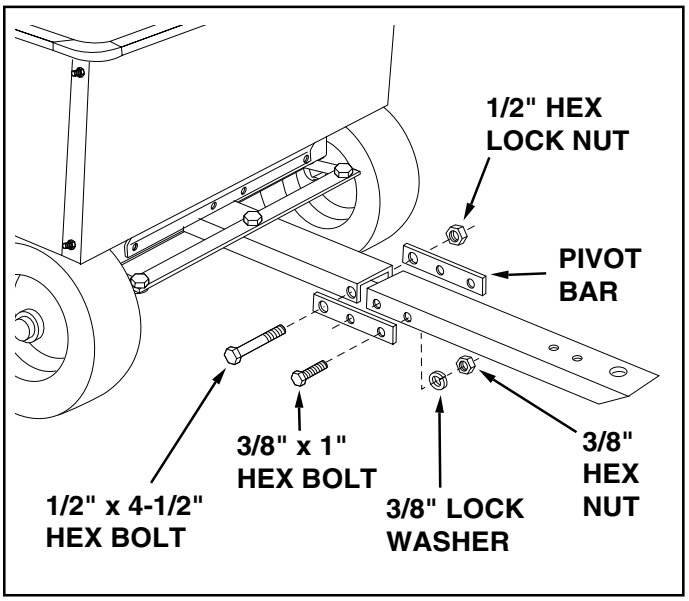


FIGURE 15

35. Assemble the hitch bracket to the front tongue section using two 3/8" x 1" hex bolts, 3/8" lock washers and 3/8" hex nuts. **Tighten.** See figure 16.

36. Assemble the hitch pin through the hitch bracket and the tongue and secure with the hair cotter pin as shown in figure 16.

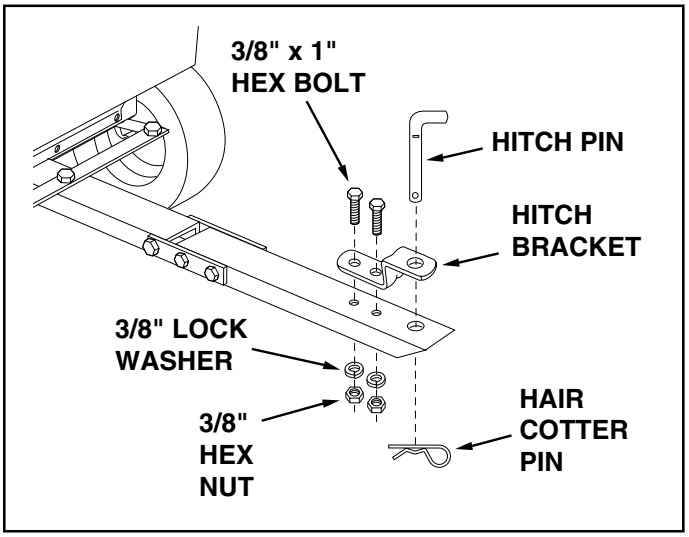


FIGURE 16

37. Place the tailgate down into the tailgate guides with the top and bottom lips of the tailgate facing to the rear.

38. If you have not yet greased the wheels, fill the wheel hubs with automotive bearing type grease.

OPERATION

CAUTION: VEHICLE BRAKING AND STABILITY MAY BE AFFECTED WITH THE ADDITION OF AN ACCESSORY OR AN ATTACHMENT. BE AWARE OF CHANGING CONDITIONS ON SLOPES.

1. Refer to the vehicle owners manual for instructions on safe operation on slopes.

2. Use the slope guide provided on page 15 of this manual to determine if slope angle is too steep for safe operation.

3. For best handling and traction, distribute the weight of the load evenly in the cart.

4. Always test to make sure your tractor has adequate towing and braking capabilities whenever hauling a substantial amount of weight in your cart. Use extra caution when operating on slopes.

NOTE

DO NOT EXCEED WEIGHT CAPACITY OF CART
(See the specifications on this page)
One cubic foot of dirt weighs approximately 150 lbs.

5. Do not unhook your cart from the tractor while on a slope. The cart could unexpectedly roll down the slope.

6. Backing up with a 4 wheel steerable cart takes practice! Before using the cart for hauling, practice backing the empty cart in a level, open area.

7. To empty material from the cart, remove the tailgate by lifting it straight up and out from between the guides. Material can then be raked or pulled out from the rear of the cart.

8. The maximum towing speed for this cart is 10 m.p.h.

MAINTENANCE

1. At the beginning of each season, lubricate, with a light machine oil, all bolts that are pivot points. Lubricate the split plastic bearings for the front axle spindles.

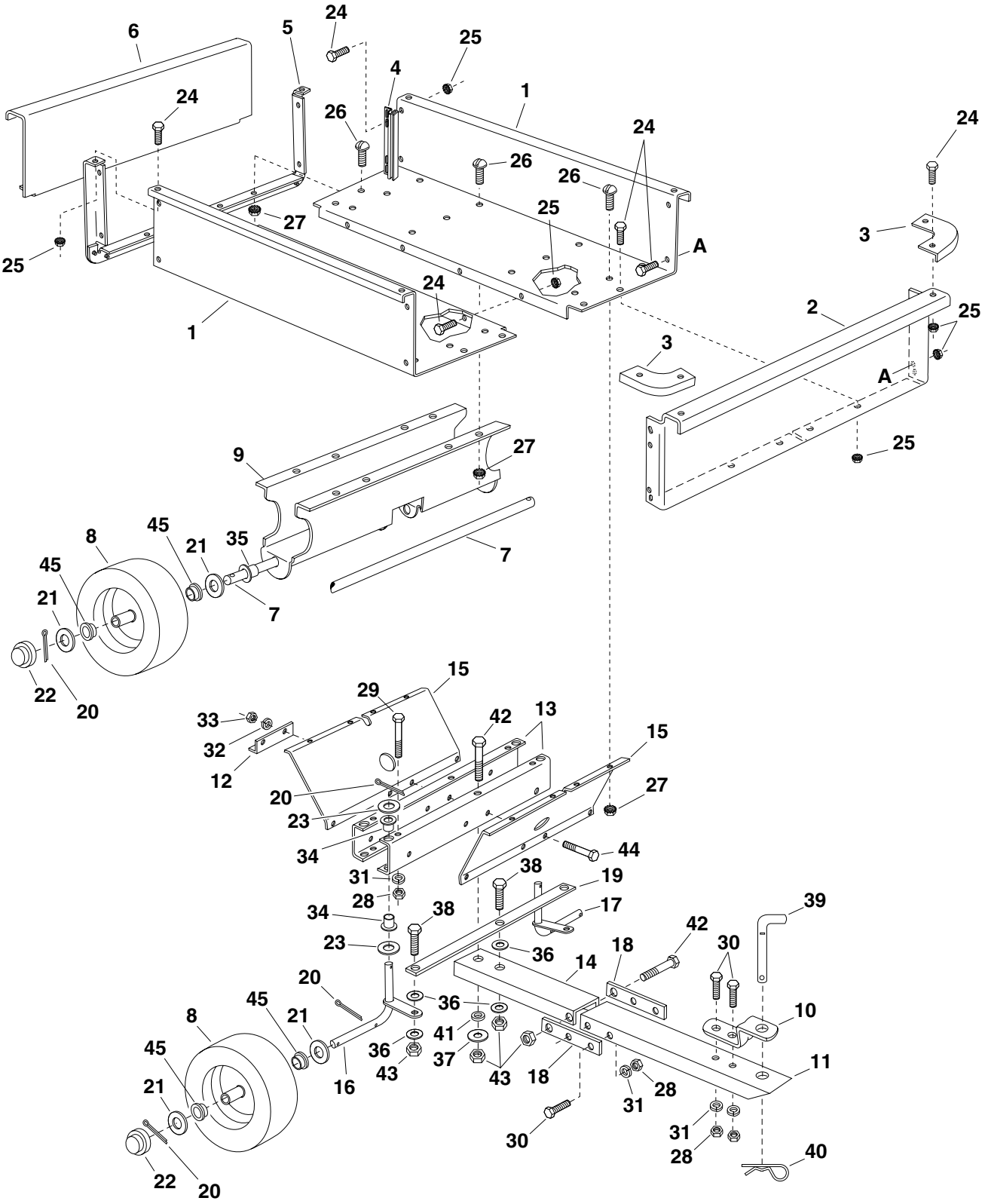
2. Grease or oil the wheel bearings periodically. Use automotive wheel bearing type grease or 20 weight oil.

3. Keep tires filled to the recommended tire pressure of 12-14 Lbs.

SPECIFICATIONS FOR 4 WHEEL CART MODEL 45-0270

Tires:	16.0" x 6.5" Pneumatic, Turf Tread
Axles:	3/4" Dia. Steel
Capacity:	Up to 2000 Lbs. Max.
Approx. Sh. Wt.	211 Lbs.

REPAIR PARTS FOR 4 WHEEL CART MODEL 45-0270



REPAIR PARTS LIST FOR 4 WHEEL CART MODEL 45-0270

REF. NO.	PART NO.	QTY.	DESCRIPTION
1	24356	2	Cart Bed
2	23490	1	Front Panel
3	23484	2	Cap, Front Corner
4	23548	2	Tailgate Guide
5	62457	1	Tailgate Reinforcement Bracket
6	23504	1	Tailgate
7	24898	1	Axle, Rear
8	46971	4	Wheel
9	23487	1	Wheel Support
10	23014	1	Hitch Bracket
11	24358	1	Tongue, Front Section
12	24375	1	Tongue Reinforcement Angle
13	24359	2	Front Axle Channel
14	24360	1	Tongue, Rear Section
15	24361	2	Front Axle Support
16	63588	1	Axle Spindle, R.H.
17	63587	1	Axle Spindle, L.H.
18	24364	2	Pivot Bar
19	24363	1	Tie Rod
20	43010	8	Cotter Pin, 1/8" x 1"
21	43009	8	Washer, Flat (3/4" large) 1.59" x .78" x .06"
22	43014	4	Hub Cap
23	1540-31	4	Washer, Flat (3/4" small) 1.25 x .78 x .06"
24	43175	22	Hex Bolt, 1/4-20 x 1/2" Lg.
25	46978	22	Hex Nut, 1/4-20 (SEMS)
26	43814	20	Truss Head Bolt, 5/16-18 x 3/4" Lg.
27	46980	20	Hex Nut, 5/16-18 (SEMS)
28	43015	8	Hex Nut, 3/8-16 Thread
29	43036	2	Hex Bolt, 3/8-16 x 4" Lg.
30	43001	6	Hex Bolt, 3/8-16 x 1" Lg.
31	43003	8	Lock Washer, 3/8"
32	43086	4	Lock Washer, 5/16"
33	43083	4	Hex Nut, 5/16"
34	741-0493A	4	Plastic Split Bearing
35	44798	2	Plastic Flange Bearing
36	R19171616	6	Washer, Flat (1/2" small) 1" x 17/32" x 16 Ga.
37	R19172410	1	Washer, Flat (1/2" large) 1-1/2" x 17/32" x 10 Ga.
38	43351	3	Hex Bolt, 1/2-13 x 1-1/4" Lg.
39	46065	1	Hitch Pin
40	43343	1	Pin, Haircotter 1/8"
41	24365	1	Pivot Bushing
42	47024	2	Hex Bolt, 1/2-13 x 4-1/2" Lg.
43	43262	5	Hex Lock Nut, 1/2-13" Thread
44	44292	4	Hex Bolt, 5/16-18 x 2-1/2" Lg.
45	44264	8	Wheel Bearing
	48458	1	Owner's Manual

* Purchase Common Hardware Locally

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NOTES

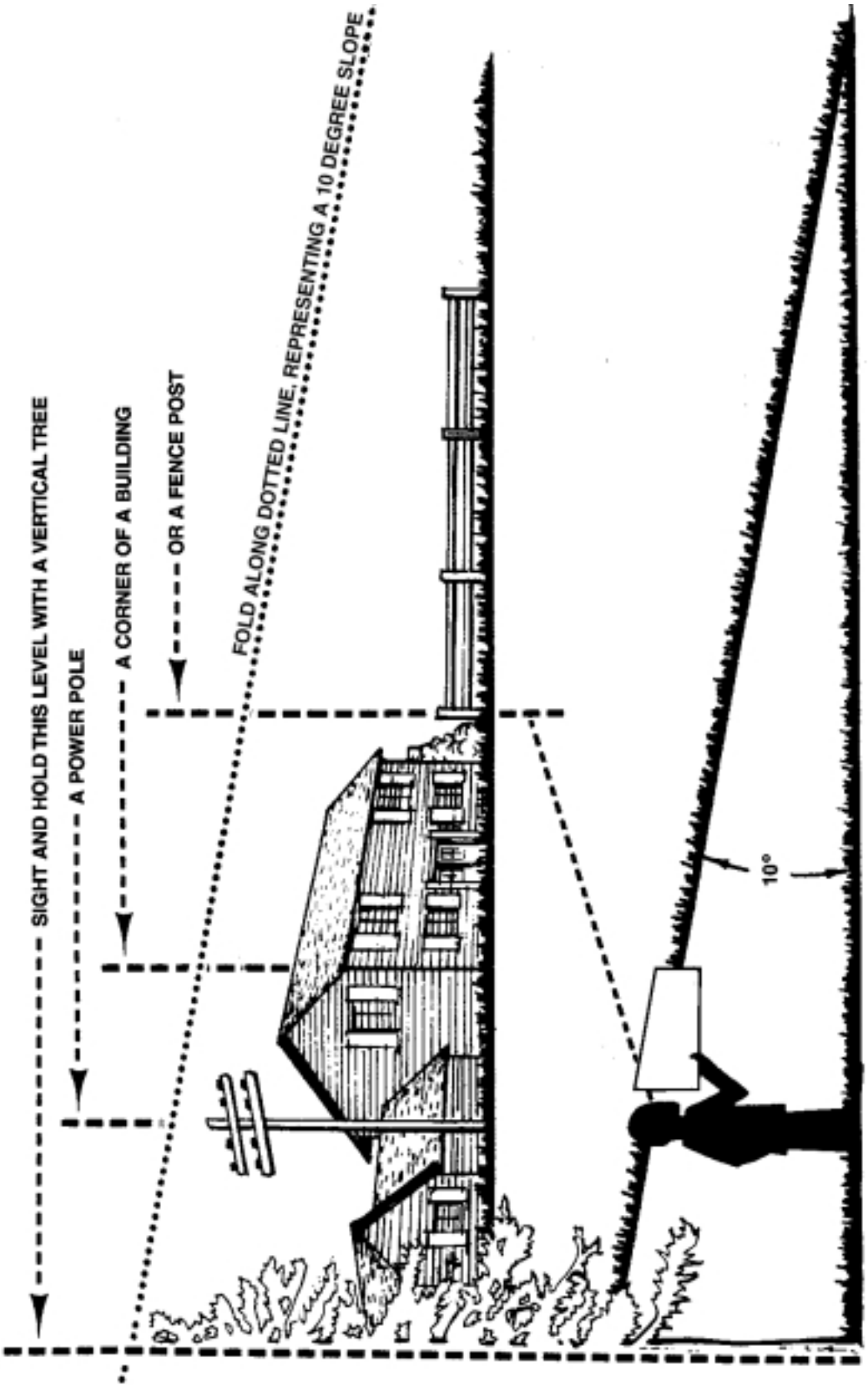
NOTES

NOTES

SLOPE GUIDE

(Keep this sheet in a safe place for future reference.)

Use this guide to determine if a slope is safe for the operation of your tractor and cart. Refer also to the instructions in your vehicle owners manual.



CAUTION: DO NOT OPERATE YOUR TRACTOR AND CART ON A SLOPE IN EXCESS OF 10 DEGREES. BE SURE OF YOUR TRACTOR'S TOWING AND BRAKING CAPABILITIES BEFORE OPERATING ON A SLOPE. AVOID ANY SUDDEN TURNS OR MANEUVERS WHILE ON A SLOPE.

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